

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A Neutral Tandem Network ("NTN") that provides transit traffic amongst public and private wireline and wireless carrier networks, comprising:

at least one switch for cross-connecting each of a plurality of inputs to at least one of a plurality of outputs;

a plurality of tandem access points for connection to switches of a plurality of said public and private wireline and wireless carrier networks, said switches including tandem switches; and

a network connecting said tandem access points to said at least one switch and said network managing the efficient routing of transit traffic between said plurality of tandem access points and said switch.

2. (Original) A Neutral Tandem Network as in claim 1, wherein at least one of said tandem access points terminates incoming calls to an incumbent LEC tandem or central office.

3. (Previously Presented) A Neutral Tandem Network as in claim 1, further comprising a plurality of tandem trunk group access points connected to said network for connection to a plurality of trunk groups.

4. (Original) A Neutral Tandem Network as in claim 3, wherein at least one of said tandem trunk group access points terminates incoming calls to at least one of emergency 911 services, directory assistance services, and operator services tandems.
5. (Original) A Neutral Tandem Network as in claim 1, wherein said at least one switch comprises a plurality of switches connected to said network so as to provide distributed switching of data amongst said plurality of tandem access points.
6. (Original) A Neutral Tandem Network as in claim 1, wherein said at least one switch comprises a soft switch.
7. (Original) A Neutral Tandem Network as in claim 6, wherein said network transmits data between said tandem access points and said soft switch as data packets.
8. (Original) A Neutral Tandem Network as in claim 1, wherein said network comprises fiber transport cables and a plurality of fiber terminals interconnecting said at least one switch and said plurality of tandem access points.
9. (Currently Amended) A method of providing transit traffic amongst a plurality of public and private wireline and wireless carrier networks, comprising:

creating a distributed switching network at a higher level in a switching hierarchy including Regional Bell Operating Company (RBOC) tandems and that is independent of said plurality of public and private wireline and wireless carrier networks, said distributed

switching network comprising at least one switch, a plurality of tandem access points, and a network connecting said tandem access points to said at least one switch;

connecting switches of each carrier network, said switches including tandem switches of said plurality of public and private wireline and wireless carrier networks, to at least one of said tandem access points; ~~and~~

switching transit traffic amongst switches of the carrier networks connected to said distributed switching network using said at least one switch; and

said distributed switching network managing the efficient routing of transit traffic between said plurality of tandem access points and said switch.

10. (Original) A method as in claim 9, comprising the further steps of connecting a RBOC switching network to said distributed switching network and terminating traffic to said RBOC switching network.

11. (Previously Presented) A method as in claim 9, comprising the further steps of providing a plurality of tandem trunk group access points on said distributed switching network and connecting each tandem trunk group access point to a trunk group including at least one of an emergency 911 services tandem, a directory assistance services tandem, and an operator services tandem.

12. (Original) A method as in claim 9, comprising the further step of maintaining said distributed switching network financially and physically independent of each carrier network.

13. (Original) A method as in claim 9, wherein said switching step comprises the step of transmitting data packets from a tandem access point to said at least one switch over said network.

14. (Canceled).

15. (Canceled).

16. (Currently Amended) A method of switching transit traffic from a first wireline or wireless carrier network to a second wireline or wireless carrier network, comprising the steps of:

routing transit traffic in said first wireline or wireless carrier network via a first tandem access point to a switch connected to said first tandem access point by a distributed switching network at a higher level in a switching hierarchy including Regional Bell Operating Company (RBOC) tandems and that is independent of said first and second wireline or wireless carrier networks;

routing said transit traffic from said switch via said distributed switching network to a second tandem access point connected to said second wireline or wireless carrier network;
~~and~~

switching said transit traffic between said first and second wireline or wireless carrier networks using said switch; and

said distributed switching network managing, independent of said first and second wireline or wireless carrier networks, the efficient routing of transit traffic between said tandem access points and said switch.

17. (Canceled).

18. (New) A Neutral Tandem Network as in claim 6, wherein said soft switch manages devices in said network to set up calls across IP, ATM, and circuit networks.

19. (New) A Neutral Tandem Network as in claim 18, wherein said soft switch maintains network policy information for said network on services, routing, and provisioning and applies the network policies to determine how calls should be handled by said IP, ATM, and/or circuit networks.

20. (New) A Neutral Tandem Network as in claim 6, wherein said network provides overflow capacity for transit traffic by routing transit traffic to a tandem that may provide an alternate route to a called party.

21. (New) A method as in claim 9, wherein said step of managing the efficient routing of transit traffic between said plurality of tandem access points and said switch comprises the step of managing devices in said distributed switching network to set up calls across IP, ATM, and circuit networks.

22. (New) A method as in claim 21, wherein said step of managing the efficient routing of transit traffic between said plurality of tandem access points and said switch comprises the steps of maintaining network policy information for said distributed switching network on services, routing, and provisioning and applying the network policies to determine how calls should be handled by said IP, ATM, and/or circuit networks.

23. (New) A method as in claim 9, wherein said step of managing the efficient routing of transit traffic between said plurality of tandem access points and said switch comprises providing overflow capacity for transit traffic by routing transit traffic to a tandem that may provide an alternate route to a called party.

24. (New) A method as in claim 16, wherein said step of managing the efficient routing of transit traffic between said tandem access points and said switch comprises the step of managing devices in said distributed switching network to set up calls across IP, ATM, and circuit networks.

25. (New) A method as in claim 24, wherein said step of managing the efficient routing of transit traffic between said tandem access points and said switch comprises the steps of maintaining network policy information for said distributed switching network on services, routing, and provisioning and applying the network policies to determine how calls should be handled by said IP, ATM, and/or circuit networks.

DOCKET NO.: VERT-0003

PATENT

Application No.: 10/087,363

Office Action Dated: December 13, 2005

26. (New) A method as in claim 16, wherein said step of managing the efficient routing of transit traffic between said plurality of tandem access points and said switch comprises providing overflow capacity for transit traffic by routing transit traffic to a tandem that may provide an alternate route to a called party.